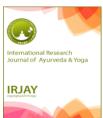
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# Ayurvedic Approach In The Management of Pcos Related Secondary Infertility: A Case Study

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### **ABSTRACT: -**

Failure to conceive by a couple of regular unprotected coitus within one or more years, defined as infertility. Primary infertility indicates those women who have never conceived. Secondary infertility denotes having previous pregnancy but failure to conceive subsequently. For conception fertility potential of the male and female partners are essential. For infertility, about 40-55 % of females are directly responsible, males about 30-40 %, both partners are responsible 10%, and rest 10% is unexplained. According to FIGO MANUAL (1990), ovulatory factors are 30-40% responsible for female infertility. Nowadays, PCOS (polycystic ovarian syndrome) is the day-to-day burning issue in the Stree and Prasuti OPDs and also become the most common cause of anovulation which further causes infertility. PCOS is affecting 20-30% of young reproductive age group women. Women with PCOS having irregular menstruation, excess of androgens, insulin resistance, anovulation, and infertility, etc. According to Ayurveda, these types of characters are found in *Pushpaghni jataharini* and Nasthartava (no proper follicle growth and anovulation). It involves dosha, dhatu, agni, and updhatu. A 21 years old female patient k/c/o PCOS, came to Stree roga and prasuti tantra OPD of NIA, Jaipur, with chief complaints of primary infertility since 1.5 years and scanty menses for 5 years. In this article, treatment with Stayanashodhak mahakashya gana kwath ,Madhumehari churna, and Phalasarpi is reported for 1.5 months and after that, she was conceived.

**Keywords-** Infertility, PCOS, Stanayashodhak Mahakashaya, Madhumehari churna, Phalasarpi



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### INTRODUCTION

Polycystic ovarian syndrome (PCOS) is known as a syndrome which clinically manifested by menstrual irregularities, acne, hirsutism, and obesity-associated with enlarged polycystic ovaries[1]. That heterogeneous disorder is characterized by excessive production of androgen by the ovaries mainly. PCOS is a polygenic and multifactorial condition. This disorder can be predominantly biochemical (hyperandrogenemia) as well as morphological (polycystic ovaries). A clinical characteristic feature of PCOS is hyperandrogenism which can cause inhibition of growth of follicular, anovulation, menstrual changes, and after that infertility causes. It is prevalent in the female of the young reproductive age group as 20-30% and may be seen in about 20% of normal women<sup>[2]</sup>. It has clinical features like increasing obesity (abdominal-50%), menstrual abnormalities (70%), and infertility. The American Society of Reproductive Medicine (ASRM) or European Society for Human Reproduction (ESHRE) or Rotterdam criteria 2003<sup>[3]</sup> has are given the international diagnostic criteria for PCOS where the presence of any two criteria confirms the diagnosis. These are oligomenorrhea (the intermenstrual period is more than 35 days) and /or anovulation, Hyperandrogenism clinically (hirsutism)/or biochemically (elevated serum testosterone concentrations), and/or polycystic ovary. According to a study, polycystic ovarian syndrome is the most common cause of anovulation which affecting 90 to 95% of the fertility of women. 50 to 80% of PCOS suffering women also faced insulin resistance, primarily in those who are overweight. If there is no ovulation, then no formation of corpus luteum. There is absence of secretory endometrium in the second half of the cycle, due to absence of progesterone, after that there is no menstruation and then there is no fertility. According to Ayurveda, there are some essential factors important for healthy conception are Reetu (fertile period), Kshetra (uterus and female reproductive organs), Ambu(rasadhatu, proper mother nutrition),Bija (shukra-shonita), the normalcy of Hridya (emotional factors) and properly functioning vata<sup>[4]</sup>I(normal nervous system) and sadhbawas<sup>[5]</sup> (mother, father, atma, satwa , satmya, and rasa). Abnormalities in any one of them can cause infertility. According to Ayurvedic classical text, Vandhyatva (infertility) is failure to give birth to a baby or experiencing garbha strava (repeated abortion) (stillbirths). mrutvatsa In Avurveda infertility described under various type of heading like beejdoshaj vikara<sup>[6]</sup>, yonivyapada (vandhya yonivyapad) ,jataharini<sup>[7]</sup> (pushpaghni), etc. Acharya Harita described six types of vandhya ,Kakvandhya (secondary infertility), Anapatya (primary infertility), Garbhstravi (repeated abortions), *Mrutvatsa*(stillbirth), Balakshaya(loss strength), and Garbha Kosh bhanga (injury to the uterus). According to Acharya Sushruta vitiated vata dosha is responsible for *vandhya*<sup>[8]</sup> and in this condition loss of *artava* (menstrual blood) occurs.

In Ayurveda, there is no direct description of PCOS but when we go through the Ayurvedic classical textbooks, there are many references that can be correlated with signs and symptoms of PCOS. It comes under many headings like yonivyapad (vataj, arajaska, lohitaksaya and ,vandhya yonivyapad), and artavvyapad (vataj artavdushti, ksheen artavdushti), etc. Based on these principles, there is the presence of dushti (vitiation) dosha (vata-kaphadosha), of dhatu(rasa-rakta dhatu),updhatu (artava), and Dhatwagnimandhyta. Our Acharya mentioned that Aapanvayu lies in the pelvic area where all female reproductive organs lie and governs all physiological action like excretion of urine, stool, menstrual blood, and fetus. So, the management of PCOS should be targeted at Agni deepana, Pachana, Vatanulomana, and Rasaraktaprasadana. The line of treatment was followed in this case to treat the provoked *vata*kaphadosha and vitiated rasadhatu.

### **CASE STUDY**

### **OBJECTIVE-**

To study the effectivity of *Stanyashodhak* mahakashya gana kwath "Madhumehari churna, and *Phalasarpi* in the management of PCOS with secondary infertility.

### **Study Details**

- Name of patient-XXX
- Date of first visit-20/06/2020
  - Table 1-

- Age-21 Years
- Religion-Hindu
- Occupation-Housewife

### **Chief Complaint With Duration**

- 1- Scanty menstrual flow since 5 years.
- 2- Unable to conceive since 1.5 years.

### **History of Present Illness**

According to the patient, she was asymptomatic five years. Gradually she develops complaints of scanty menses and after ultrasonography PCOS was found. After marriage had been trying to conceive but failed to do so despite regular unprotected coitus for 1.5 years. She visited PTSR OPD of NIA, Jaipur, for proper investigation and Ayurvedic management.

### **History of The Patient**

Personal History

- Diet-veg
- Appetite-Normal
- Bowel-clear
- Bladder-clear
- Sleep- Sound
- Medication-Nil
- Addiction-Not any
- Past medical/surgical history-Not significant

### **Family History**

Not significant

Menstrual And Marital History

- Menarche-at the age of 13 years
- o LMP -02/06/2020
- Menstrual History

Duration of menses blood flow	1-2 days				
Intermenstrual period	30 days				
Regular/ Irregular	Regular				
No. Of pads/day	1-2 pads/day(not fully soaked)				
Clots	Few				
Colour	Dark red				
Foul smell in menstrual blood	Not present				
Associated complaints	Not any				

Married life- 2 years Active married life- 2 years Obstetrics History

- G1P0A1L0
- G1- Spontaneous abortion ,1.5 months of pregnancy, in 2020

### Ashtavidha Parikshana (Eight Folds of Examination In Ayurveda)

- *Nadi* (Pulse) 82/min, regular.
- Mala (Stool) –Nirama
- *Mutra* (Urine) 5-7 times/day, pale yellow
- Jivha (Tongue) –Nirama
- Shabda (voice) Prakruta & Spasta
- Sparsha (Touch) Sama Shitoshna
- Drika (vision) Prakruat
- Aakruti (Body proportion) Madhyama

### **Physical Examination**

General Examination-

- Height- 155cm
- Weight- 51 kg
- BMI- 21.2
- B.P- 110/70 mm Hg
- Averagely built and nourished
- Pallor- Nil
- Secondary sexual characters- Normal and age appropriate
- Nails, tongue, and conjunctiva- Pink
- No evidence of lymphadenopathy, icterus

Systemic Examinations

- Respiratory system Air entry bilateral clear
- Cardiovascular system –S1 S2 audible
- Central nervous system Conscious

### **INVESTIGATION**

- o USG-02.06.2020
- Both ovaries were slightly bigger in size with peripherally placed few small follicles with central stroma.
- Impression- PCOS.
- o Hb- 9.9 gm%

D LFT, RFT, LIPID PROFILE, THYROID PROFILE-WNL

## The Treatment Schedule For The Present Study

Principle Of Treatment- Treatment should be agni deepaka, ama pachana, vatashamak, and raktashodhak.

- 1) Nidana Parivarjana (Elimination Of Causes):Complete history taken and eliminate possible causes of the disease, like faulty dietary habits, fast food,late-night sleeping, overthinking, Viruddha Aahara, Vegvidharan (withholding natural urges like stool, urine). Nidan parivarjan is the first treatment mentioned in first chpater of Sushruta's Uttaratantra.
- 2) Aahar Vyavastha (Dietary Changes)- Advice use diet green leafy vegetables, *jau* (barley), Bitter gourd, Green gram (*Mudga*), *Puran Shali* rice, cow milk & ghee in diet and seasonal fruits, plenty of water, because food is great medicine (*Acharya Kashyapa* mentioned that *Aahar* is *Mahabhaishajya*). She regularly followed *Rajaswala charya*<sup>[9]</sup> in first three menstruating days -
- Shali rice/ Old rice cook with Cow's milk + mishri
- o Porridge( *daliya* ) of *Jau* (Barley) cook with Cow's milk, *mishri*
- Chapati of Jau flour with an abundant amount of Cow' ghee
- Seasonal sweet fruits.
- Avoid- Normal diet like wheat's Chapati, Salt,
   Spices, mustard /refined Oil, Sour fruits, etc.
  - 3)-Drug administration-These all medicines are given orally for 1.5 months.
  - 1- Stanyashodhak mahakashya gana kwath- 15 ml twice a day empty stomach (morning-evening)
  - 2-Madhumehari churna- 3gm twice a day after meals with water.
  - 3-*Phalasarpi* 5 ml twice a day empty stomach with lukewarm cow's milk.

### **Ayurvedic Pharmacological Properties And Action Of The Drug**

Table-2

1- Stanyashodhak Mahakashya Gana Kwath<sup>[10]</sup>

Dravya	Rasa	Guna	Veerya	Vipaka	Karma
Patha	Tikta	Laghu,	Ushna	Katu	Tridoshashamak,deepan,pachana,
(Cissampelos		tikshana			Raktashodhaka
pareira)					
Mahaushadh	Katu	Laghu	Ushana	Madhura	Vatakaphashamak,vatanulomana,
(zingiber		,snigdha			raktashodhak ,vrishya,Deepan
officinale)					,AamPachan
Musta	Tikta,katu,	Laghu	Sheeta	Katu	Kapha shamak,deepan
(cyperus	kashya	,ruksha			<mark>,pach</mark> ana,raktaprasadak,stanyajan
rotundus)	A.	7			<mark>an</mark> a, <mark>Ra</mark> jorodhhara.
Guduchi	Tikta	Guru,	Ushna	Madhura	Tridoshshamaka, deepan
(tinospora	ka <mark>sh</mark> aya	snigdha			,pach <mark>ana,an</mark> uloman,raktashodhak,
cordifolia),	.2				raktv <mark>ardhaka</mark> ,pramehhara.
Murva					AME.
(marsdenia			1		
tenacissima)	10				/ 6
Vatsaka phala	Tikta	Laghu,	Sheeta	Katu	Kaphavatashamaka,deepan,raktsh
(holarrhena	kasha <mark>ya</mark>	ruksha			o <mark>dhaka</mark>
antidysenterica)	_ N				
Kiratatikta	Tikta	Laghu,	<mark>Us</mark> ha <mark>na</mark>	Katu	Kaphavatashamaka,deepana,
(swertia		ruksha			aampachna,anulomana,
chirayita)					raktshodhaka.
Katurohini	Tikta	Laghu,	Sheeta	Katu	Kaphapittahara,deepan,rakatshod
(Picrorhiza		ruksha			haka,pramehhara,
kurroa)					
Sariva	Madhura ,	Guru,	Sheeta	Madhura	Tridoshshamak,deepan,pachan,
(hemidesmus	Tikta	snigdha			anulomana,raktshodhaka,
indicus)					garbhsthapana.

Table 3-**2-** *Madhumehari Churna*<sup>[11]</sup>

Dravya	Rasa	Guna	Veerya	Vipaka	Karma
Jambubeeja (syzygium Cumini)	Kashya ,madhra ,amla	Laghu ruksha	Sheeta	Katu	Kaphapitta shamak,deepan ,pachan,beej specially used in madhumeha
Aamrasthi majja (mangifera Indica)	Kashaya	Laghu ruksha	Sheeta	Katu	Kaphapittashamak,deepan, Garbhashayshothhara,pramehahara.
Karvellaka (momordia Charantia)	Tikta, katu	Laghu ruksha	Ushana	Katu	Kaphavatashamak,deepan, pachana, Raktshodhaka, stanyashodhak, Artavjanana,pramehahara,incearses insuline level
Meshshrangi (gymnema sylvestre)	Kashya , Tikta	Laghu, ruksha	Ushana	Katu	Kaphavatashamaka,increases insulin,Secretion,rajorodhhara, deepana
Methika (trigonella foenum)	Katu	Laghu , Snigdha	Ushana	Katu	Vatashamaka, deepan , pachana, anuloman, stanyajanana.
Bilva patra (aegle Marmelos)	Kashya , Tikta	Laghu, ruksha	Ushana	Katu	Kapha-vatashamak, deepan , pachana, Pramehahara, garbhashya shothhara,
Nimba beeja (azadirachta Indica)	Kashy <mark>a</mark> , Tikta	Laghu, ruksha	Sheeta	Katu	Kaphapittashamak, raktashodhak, deepan, madhumehahara
Shunthi (zingiber officinale)	Katu	Laghu ,snigdha	ushana	Madhura	Vatakaphashamak,vatanulomana, raktashodhak,vrishya,Deepan,Pachan
Mishreya (foeniculum Vulgae)	Katu , Tikta, Madhura	Laghu, Snigdha	Sheeta	<u>Madhura</u>	vatashamaka,deepan ,pachana, anulomaa,sothhara,stanya janana, raktprasadhaka.
Bala beeja (sida Cordifolia)	Madhura	Laghu, snigdha , picchil	Sheeta	Madhura	Vatashamaka,prajasthapana
Babulphala (acacia Arabica)	Kashya	Guru , Ruksha	Sheeta	Katu	Kaphapittashamak,garbhashya Sothhara.
Swarnapatri (cassia angustifolia)	Katu ,tikta ,madhura ,kashya	Laghu , Ruksha , Tikshna	Ushna	Katu	Vatanulomana,kapha-vatashamaka, Raktshodhaka.

### 3- Phala sarpi<sup>[12]</sup>

It contains manjistha, kushta,

tagara,triphala, vacha, madhuka, meda, dipyka, katurohini, payasa, kakoli, shatavari and hingu.

Dravya	Ras	Guna	Veerya	Vipaka	Karma
Manijistha ,Kushth	Tikta	Guru ,	Ushana	Katu	Kaphavatashamak,
,Tagara ,Vacha ,Dipyka	Kashaya ,	Ruksha			deepan ,pachana
Katurohini (sheetaveerya	Katu				raktashodhaka
),Hingu ,Haritaki					,stanyashodhaka
(madhuravipaka ),					,artavjanana
Bibhtaki					
(madhuravipaka).					
Rest all	Madhura	Guru	Sheeta	Madhura	Vatashamaka,
	,Kashya	,snigdha			Stanyajanana etc.

#### RESULT

After following this treatment, the patient's menses did not come in the next cycle and she did UPT at home which was found positive on 8/8/2020.

### **DISCUSSION**

According ovarian Ayurveda, factor associated with Vandhyatva is VataKaphaPradhana Vyadhi. Associated dhatwagnimandta, Vikruti of apanavayu, rassraktadhatu occurs. Hence the main line of treatment used was, Vat<mark>akaphasha</mark>maka, Agnidipana, Pachaka, Vatanulomaka, Brimhana, and raktashodhaka. There is no mention of rationale of treatment you used particularly in this patient.

In these medicines, mostly drugs having properties like *tikta-katurasa*, *laghu-ruksha guna*, *katu vipak*, *ushna-virya* which do *rasadhatuposhan* and after that *samyaka rasa* formation occur. As *artava* is *upadhatu* of *rasa dhatu* so *artavajanana* is achieved by all this. These drugs having *vatakapha shamana*, *aagnidipan*, *aampachan*, *vatanuloman*, *artavjanana*, *raktashodhka* properties. By these qualities, *strotoshodhan* 

occurs and then the proper formation of all dhatu and upadhatu happened, by which it might help in ovulation. These drugs facilitate the normal action of Vata which stimulates the normal production of Artava.

According to Ayurveda, the food is digested first by the jathrangni (digestive-fire) further digested by *Dhatwagni*. This *dhatwagni* can be compared with liver enzymes. Due to the Any abnormality in *Dhatwagni* slowing (Metabolism) may lead to imporper formation and assimilation of subsequent *Dhatu* in the body and also cause obstruction of microcirculatuon channels. of it, proper formation of dhatu hampered. In PCOS, gets hypofunction of Dhatwagni may lead to metabolic disorders like obesity(belly fat dyslipidemia, mainly), and hormonal dysfunction which further causes menstrual irregularities, anovulation, etc. Stanyashodhak gana and phalasarpi contain Kutki, which is a very good liver stimulant drug that stimulates dhatwagni for the proper formation of dhatu. Phalasarpi enhances fertility by providing strength to the uterus and improves the chances conceiving. According to Phalasarpi helps the woman to conceive and is

best for treating female reproductive disorders. It is having properties like *Balya*, *Vatahara*, *Brihaniya*, *Garbhadharana* and *Rasayan*. Probably, *Phalasarpi* stimulates the hypothalamus-pituitary ovarian axis which increases Gonadotropin secretion and regulates enzymes involved in ovarian steroidogenesis. *Madhumerahi churna* is generally used in diabetes but here we used it mainly to treat PCOS, because insulin resistance is a characteristic feature of diabetes as well as PCOS. After followed this treatment protocol patient conceived within 1.5 months.

### **CONCLUSION**

According to Ayurveda, PCOS disorder involves Vatakaphadosha, vitiation of rasaraktadhatu ,artva updhatu and dhatwagnimandta. To combat this, we need the drug which pacifies the dosha, balances dhatu, and enhances dhatwagni. Stanyashodhak gana and madhumehari churna are quite effective to treat PCOS as well as Vandhyatwa by regulating menstruation and induces ovulation. Phalasarpi is a widely used medicine in female infertility due to its Balya, Vatahara, Garbhadharan, and Rasayan property.

Ayurveda medicines enhance the body systems participating in the process of ovulation and gives an excellent alternative for reaching fertility. After adopting a holistic Ayurvedic treatment, *aahar-vihar* regimen, can prove to be effective in the management of PCOS-related infertility.

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### REFERENCES

- Konar H. Dc Dutta's ,Textbook of Gynaecology 6<sup>th</sup> edition, Chapter- 28<sup>th</sup> ,p-459.
- Konar H. Dc Dutta's , Textbook of Gynaecology 6<sup>th</sup> edition, Chapter- 28<sup>th</sup> ,p 459.
- 3. Konar H. Dc Dutta's D, Textbook of Gynaecology 6<sup>th</sup> edition, Chapter- 28<sup>th</sup> ,p-459
- 4. Vidhotini Hindi Tika Ashtanga Hridaya Chaukhamba Sanskrit Sansthan Sharirasthan , 1:68, Asthang Samghra Sharirasthana , 1:8
- 5. Shastri K. Charaka samhita Part-I Chaukhamba Sanskrit Sansthan Sharirasthana; 4:4
- 6. Shastri K Charaka samhita Part-I Chaukhamba Sanskrit Sansthan Sharirasthana; 4: 30
- 7. Sharam Hemraja Pandit Kashyup Samhita Chaukhamba Sanskrit Sansthan, kalpasthana, 6:33
- 8. Shastri A. Sushruta Samhita Part-II Chaukhamba Sanskrit Sansthan Uttarastantra; 38:10
- 9. Shastri A. Sushruta Samhita Part-II Chaukhamba Sanskrit SansthanSharirasthana: 2:25
- 10. Shastri K Charaka samhita Part-I Chaukhamba Sanskrit Sansthan Sutrasthana Adhayay 4: 18
- 11. Ayurvedic Formulatory of India,vol-III 6;35 ,p-147
- 12. Vidhotini Hindi Tika Ashtanga Hridaya Chaukhamba Sanskrit Sansthan uttrasthan ,39:81